

Customer No. 22,852 Attorney Docket No.: **05788.0340**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
Attilio BRAGHERI et al.)
Application No.: Not Yet Assigned) Group Art Unit: Not Yet Assigned)
Filed: January 27, 2005) Examiner: Not Yet Assigned)
National Stage of International Application No. PCT/EP2002/008526 under 35 U.S.C. 371, for MULTI-STAGE RAMAN AMPLIFIER)))

MAIL STOP PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)

Pursuant to 37 C.F.R. §§1.56 and 1.97(b), applicants bring to the Examiner's attention the documents listed on attached Form PTO-SB-08 and cited in the international search report. With exception of the U.S. publication, copies of the listed documents are attached. Applicants respectfully request that the Examiner consider the documents listed on attached Form PTO-SB-08 and indicate that they were considered by making an appropriate notation on this form. This Information Disclosure Statement is being filed with the above-referenced application.

10/522555

5 Rec'd PCT/PTO 2.7 JAN 2005 Customer No. 22,852

Attorney Docket No. **05788.0340**

Also enclosed is an English-language international search report from the

European Patent Office in the PCT international application, from which this national

phase U.S. application is derived.

This submission does not represent that a search has been made or that no better

art exists and does not constitute an admission that each or all of the listed documents are

material or constitute "prior art." If the Examiner applies any of the documents as prior art

against any claim in the application and applicants determine that the cited documents do

not constitute "prior art" under United States law, applicants reserve the right to present to

the Office the relevant facts and law regarding the appropriate status of such documents.

Applicants further reserve the right to take appropriate action to establish the patentability of

the disclosed invention over the listed documents, should one or more of the documents be

applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge

the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,

GARRETT & DUNNER, L.L.P.

Dated: January 27, 2005

Ernest F. Chapman

Reg. No. 25,961

Enclosures EFC/FPD/sci

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IDS Form PTO/SB/08: Substitute for

49A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	1
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D	Bresch Pritonia 27 Jan 2005
Application Number	Not Yet Assigned
Filing Date	January 27, 2005
First Named Inventor	Attilio BRAGHERI et al.
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	05788.0340

	U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS				
Examiner	Cite	Document Number	Issue or	Name of Patentee or	Pages, Columns, Lines, Where
Initials	No.¹	Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
		US-2002/0044335 A1	04-18-2002	ISLAM et al.	
		US-			
				W	

Note: Copies of the U.S. Patent Documents are not Required in IDS filed after October 21, 2004

	FOREIGN PATENT DOCUMENTS					
Examiner Initials	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation ⁶
		WO 02/058198 A2/A3	07-25-2002	ISLAM et al.		
			-			
						

	NON PATENT LITERATURE DOCUMENTS				
Examiner Cite No.1		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
		KOBAYASHI, K., "Fiber Raman Amplifier and Fiber Raman Laser", Patent Abstracts of Japan, JP. No. 200109026, April 20, 2001			
		KRUMMRICH, P. M. et al., "Bandwidth Limitations of Broadband Distributed Raman Fiber Amplifiers for WDM Systems", OFC 2001, Optical Fiber Communication Conference and Exhibit. Technical Digest Post Conference Edition (IEEE CAT. 01CH37171, OFC 2001. Optical Fiber Communication Conference and Exhibition. Technical Digest, Anaheim, CA, USA, Vol. 1, pp. MI3/1-3, (March 17-22, 2001).			
		FLUDGER, C. R. S., et al., "Fundamental Noise Limits in Broadband Raman Amplifiers", OFC 2001, Optical Fiber Communication Conference and Exhibit. Technical Digest Post Conference Edition (IEEE CAT. 01CH37171, OFC 2001. Optical Fiber Communication Conference and Exhibition. Technical Digest, Anaheim, CA, USA, Vol. 1, pp. MA5/1-3, (March 17-22, 2001).			
		KIDORF, H. et al., "Pump Interactions in a 100-nm Bandwidth Raman Amplifier", IEEE Photonics Technology Letters, Vol. 11, No. 5, pp. 530-532, (May 1999).			
_		ZHOU, X. et al., "A Simplified Model and Optimal Design of a Multiwavelength Backward-Pumped Fiber Raman Amplifier", IEEE Photonics Technology Letters, Vol. 13, No. 9, pp. 945-947, (September 2001).			
		KADO, S. et al., "Broadband Flat-Noise Raman Amplifier Using Low-Noise Bi-Directionally Pumping Sources", ECOC 2001, 2 Sheets, (2001).			

Examiner	Date	
Signature	Considered	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.